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1 [A comprehensive service discovery solution for mobile ad hoc networks](#)

Jerry Tyan, Qusay H. Mahmoud

August 2005 **Mobile Networks and Applications**, Volume 10 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(2.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Service discovery is an integral part of constructing self-configuring Mobile Ad Hoc Networks (MANETs). While several service discovery protocols have been developed, most of them are designed for infrastructure-based networks and thus not suitable to be used in MANETs. Due to the volatile nature of MANET, service discovery protocols designed for MANETs often suffer from problems. Firstly, they have limited scalability due to the extensive use of broadcast communication. Secondly, they usually lack ...

Keywords: Hexell, MANETs, routing, service discovery, service interaction, service selection

2 [The Web Service Discovery Architecture](#)

Wolfgang Hoschek

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing Supercomputing '02**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(282.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we propose the Web Service Discovery Architecture (WSDA). At runtime, Grid applications can use this architecture to discover and adapt to remote services.

WSDA promotes an interoperable web service discovery layer by defining appropriate services, interfaces, operations and protocol bindings, based on industry standards. It is unified because it subsumes an array of disparate concepts, interfaces and protocols under a single semi-transparent umbrella. It is modular because it def ...

3 [Sensors and networking: Optimizing BGP security by exploiting path stability](#)

Kevin Butler, Patrick McDaniel, William Aiello

October 2006 **Proceedings of the 13th ACM conference on Computer and communications security CCS '06**

Publisher: ACM Press

Full text available:  pdf(411.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Border Gateway Protocol (BGP) is the de facto interdomain routing protocol on the Internet. While the serious vulnerabilities of BGP are well known, no security solution has been widely deployed. The lack of adoption is largely caused by a failure to find a balance between deployability, cost, and security. In this paper, we consider the design and performance of BGP path authentication constructions that limit resource costs by exploiting route stability. Based on a year-long study of BGP t ...

Keywords: BGP, path stability, routing, security

4 Security requirements in service oriented architectures for ubiquitous computing

 Domenico Cotroneo, Almerindo Graziano, Stefano Russo
October 2004 **Proceedings of the 2nd workshop on Middleware for pervasive and ad-hoc computing MPAC '04**

Publisher: ACM Press

Full text available:  pdf(289.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This work presents a detailed analysis of the security requirements for Service Oriented Architecture in mobile computing, still missing in the current literature. The purpose of this work is twofold. First, to provide protocol architects and software engineers with a map of security requirements in ubiquitous computing, through the evaluation of existing protocols and architectures. Second, to highlight architectural issues, including technologies and trade offs, in the design and implementa ...

Keywords: security requirements, service delivery, service discovery, service oriented architectures

5 Supporting service discovery, querying and interaction in ubiquitous computing environments

Adrian Friday, Nigel Davies, Nat Wallbank, Elaine Catterall, Stephen Pink
November 2004 **Wireless Networks**, Volume 10 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  pdf(209.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we contend that ubiquitous computing environments will be highly heterogeneous, service rich domains. Moreover, future applications will consequently be required to interact with multiple, specialised service location and interaction protocols simultaneously. We argue that existing service discovery techniques do not provide sufficient support to address the challenges of building applications targeted to these emerging environments.

This paper makes a number of contribu ...

Keywords: distributed systems, middleware, mobile and ubiquitous computing, service discovery, service interaction

6 Ethane: taking control of the enterprise

 Martin Casado, Michael J. Freedman, Justin Pettit, Jianying Luo, Nick McKeown, Scott Shenker
August 2007 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '07**, Volume 37 Issue 4

Publisher: ACM PressFull text available:  pdf(675.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents Ethane, a new network architecture for the enterprise. Ethane allows managers to define a single network-wide fine-grain policy, and then enforces it directly. Ethane couples extremely simple flow-based Ethernet switches with a centralized controller that manages the admittance and routing of flows. While radical, this design is backwards-compatible with existing hosts and switches.

We have implemented Ethane in both hardware and software, supporting both wired and ...

Keywords: architecture, management, network, security

7 Scalable support for transparent mobile host internetworking 

David B. Johnson

August 1995 **Wireless Networks**, Volume 1 Issue 3**Publisher:** Kluwer Academic PublishersFull text available:  pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper considers the problem of providing transparent support for very large numbers of mobile hosts within a large internetwork such as the Internet. The availability of powerful mobile computing devices and wireless networking products and services is increasing dramatically, but internetworking protocols such as IP used in the Internet do not currently support host movement. To address this need, the Internet Engineering Task Force (IETF) is currently developing protocols for mobile ...

8 Communication technology II - Internet, services, and architectures: A query federation of UDDI registries 

Porntpong Rompothong, Twittie Senivongse

September 2003 **Proceedings of the 1st international symposium on Information and communication technologies IISICT '03****Publisher:** Trinity College DublinFull text available:  pdf(289.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Cooperation between multiple service registries is a desirable feature for large-scale distributed systems where there are several instances of such registries housing advertisement entries for various businesses and services. By federating service registries, advertisement entries in one registry can be discovered by service consumers who query via other remote registries. This paper presents an extension for a query federation of UDDI registries within Web Service environment. This allows quer ...

Keywords: UDDI, Web service, federation, service discovery

9 A survey and analysis of Electronic Healthcare Record standards  Marco Eichelberg, Thomas Aden, Jörg Riesmeier, Asuman Dogac, Gokce B. Laleci December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4**Publisher:** ACM PressFull text available:  pdf(844.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Medical information systems today store clinical information about patients in all kinds of proprietary formats. To address the resulting interoperability problems, several Electronic Healthcare Record standards that structure the clinical content for the purpose of exchange are currently under development. In this article, we present a survey of the most relevant Electronic Healthcare Record standards, examine the level of

interoperability they provide, and assess their functionality in terms o ...

Keywords: Electronic Healthcare Record standards, eHealth, interoperability

- 10 Session 6: web services II: An open and dynamical service oriented architecture for supporting mobile services 

Elena Sanchez-Nielsen, Sandra Martin-Ruiz, Jorge Rodriguez-Pedrianes
July 2006 **Proceedings of the 6th international conference on Web engineering ICWE '06**

Publisher: ACM Press

Full text available:  pdf(425.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobile services (m-services) play an important role in daily life and work of modern societies. Current service oriented architectures (SOA) are widely used to offer Web Services on wired networks. However, no significant research has been done in m-services field to provide availability service and dynamical discovery to mobile users. Nowadays, mobile devices are characterized by limited resources such as processing power, memory, display screen and connection bandwidth. In this context, we pro ...

Keywords: dynamical m-services invocation, m-services architecture, mobile and ubiquitous computing, service oriented architecture

- 11 Fast detection of communication patterns in distributed executions 

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

- 12 Business-to-business interactions: issues and enabling technologies 

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**,

Volume 12 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(558.34 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

- 13 Session III: Mobility Management in multimedia networks: Mobility support in unified 

 **communication networks****Helen J. Wang, Randy H. Katz****July 2001 *Proceedings of the 4th ACM international workshop on Wireless mobile multimedia WOWMOM '01*****Publisher:** ACM PressFull text available:  [pdf\(1.11 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Rapid advances in communication networks and device technologies have enabled people with powerful means of communications. It is common for any individual to be associated with a number of heterogeneous communication devices (such as phones, pagers, PDAs) or a variety of applications (such as e-mail, instant messaging, or chat-rooms). This phenomenon has spurred a great demand for *unified communication* [20] services which integrate one's various communication mechanisms in a meaningful a ...

14 Next century challenges: data-centric networking for invisible computing: the **Portolano project at the University of Washington****Mike Esler, Jeffrey Hightower, Tom Anderson, Gaetano Borriello****August 1999 *Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking MobiCom '99*****Publisher:** ACM PressFull text available:  [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**15 Composable ad hoc location-based services for heterogeneous mobile clients****Todd D. Hodes, Randy H. Katz****October 1999 *Wireless Networks*, Volume 5 Issue 5****Publisher:** Kluwer Academic PublishersFull text available:  [pdf\(403.18 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**16 Supporting application development in the semantic web** **Daniel Oberle, Steffen Staab, Rudi Studer, Raphael Volz****May 2005 *ACM Transactions on Internet Technology (TOIT)*, Volume 5 Issue 2****Publisher:** ACM PressFull text available:  [pdf\(1.89 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Semantic Web augments the current WWW by giving information a well-defined meaning, better enabling computers and people to work in cooperation. This is done by adding machine understandable content to Web resources. Such added content is called metadata, whose semantics is provided by referring to an ontology---a domain's conceptualization agreed upon by a community. The Semantic Web relies on the complex interaction of several technologies involving ontologies. Therefore, sophisticated Sem ...

Keywords: Application server, KAON, KAON SERVER, Semantic Web, Wonder-Web, extensibility, interoperation, middleware, ontology, reuse, semantic middleware

17 Engineering e-learning systems (ELS): The eduSource Communication Language: **implementing open network for learning repositories and services****Marek Hatala, Griff Richards, Timmy Eap, Jordan Willms****March 2004 *Proceedings of the 2004 ACM symposium on Applied computing SAC '04*****Publisher:** ACM PressAdditional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  pdf(582.47 KB)

terms

Interoperability is one of the main issues in creating a networked system of repositories. The approaches range from simply forcing one metadata standard on all participating repositories to highly sophisticated semantic web based architectures with full semantic mapping capabilities between different schemas. The eduSource project in its holistic approach to building a network of learning object repositories in Canada is implementing an open network for learning services. Its openness is support ...

Keywords: interoperability, learning object repositories

18 Service support: A distributed approach for assistive service provision in pervasive environment 

 Mahmoud Ghorbel, Mounir Mokhtari, Stéphane Renouard

September 2006 **Proceedings of the 4th international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '06**

Publisher: ACM Press

Full text available:  pdf(1.50 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose assistive service provision architecture in pervasive environments. This architecture is based on a distributed approach and ensures service design, deployment and discovery aspects. In order to perform those aspects, several constraints are supported by this architecture such as the context of the pervasive environment, the user profile and the terminal profile. Delivered services are dedicated to dependent people (elderly and people with disabilities). Our strategy is ...

Keywords: architecture, assistive environment, human-environment interaction, people with disabilities, service continuity

19 Poster papers - short papers: Ontology-driven peer profiling in peer-to-peer enabled semantic web 

 Olena Parkhomenko, Yuggyung Lee, E. K. Park

November 2003 **Proceedings of the twelfth international conference on Information and knowledge management CIKM '03**

Publisher: ACM Press

Full text available:  pdf(240.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Peer-to-peer (P2P) systems and Semantic Web are two novel technologies that face a lot of shortcomings if considered as isolated paradigms. We present an approach that utilizes ontologies to set up a peer profile containing all the data, necessary for peer-to-peer interoperability. Using this profile can help eliminate some major issues persistent in current P2P networks, such as security, resource aggregation, group management. We also consider applications of peer profiling for Semantic Web bu ...

Keywords: P2P, ontology, peer profile, profiling, semantic web

20 Wireless troubleshooting: WiFiProfiler: cooperative diagnosis in wireless LANs 

 Ranveer Chandra, Venkata N. Padmanabhan, Ming Zhang

June 2006 **Proceedings of the 4th international conference on Mobile systems, applications and services MobiSys 2006**

Publisher: ACM Press

Full text available:  pdf(404.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

While 802.11-based wireless hotspots are proliferating, users often have little recourse

when the network does not work or performs poorly *for them*. They are left trying to manually debug the problem, which can be a frustrating and disruptive process. The users' troubles are compounded by the absence of network administrators or an IT department to turn to in many 802.11 hotspot settings (e.g., cafes, airports, conferences). We present WiFiProfiler, a system in which wireless hosts coopera ...

Keywords: 802.11, fault diagnosis, peer-to-peer performance problems, wireless networks

Results 1 - 20 of 135

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [next](#)

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